

BOWSER



GASOLINE & OIL
EQUIPMENT *for*
the
HOME GARAGE

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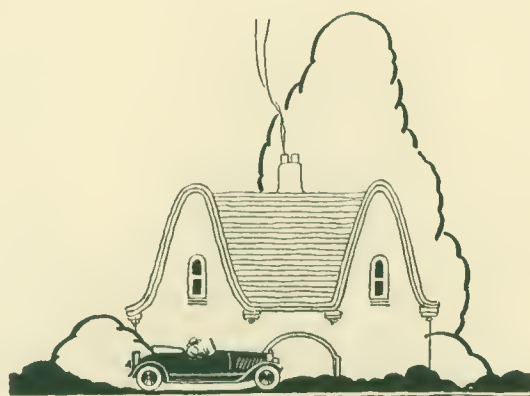
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B O W S E R

Gasoline and Oil
Equipment in the

H O M E G A R A G E



S·F·BOWSER & Co·Inc.
TANKS AND PUMPS FOR GASOLINE AND OIL
FORT WAYNE · INDIANA · U·S·A·



The garage of
Herbert C. Uhlein,
Milwaukee, Wis.;
Bowser equipped.



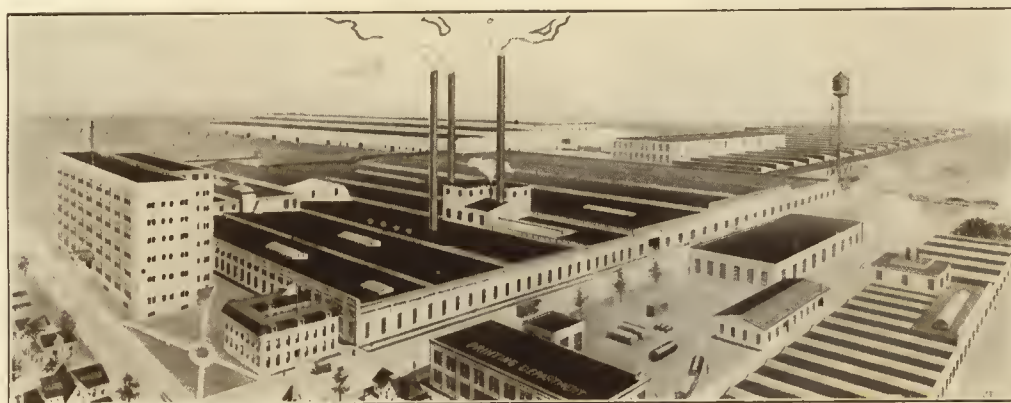
1885

THIRTY-NINE YEARS AGO

before the day of the automobile, S. F. Bowser invented and developed pumps and tanks to handle and store kerosene and other liquids. To the favored persons in the early automobile days, who could afford the luxury of the first gasoline-propelled buggies, Bowser was prepared to furnish equipment to handle the fuel. Today Bowser serves many owners of motor cars. Builders of fine home garages specify the installation of Bowser equipment.

From the humble workshop in a cow-barn, S. F. Bowser & Co., Inc., has grown into the largest industry in the world engaged in exclusive pump and tank building. Its leadership has been established through the building of quality into its products.

1924





Bowser serves the
garage of Fred
Vogel, Jr., Mil-
waukee, Wis.

THOROBREDS



GENERALLY speaking, the thorobred horse has been displaced by the thorobred motor car. The thorobred horse was accustomed to individual, trained attention. Likewise the thorobred car deserves personal service. By serving it gasoline and oils from equipment in its own garage, the owner makes sure that his car is getting the proper fuel and lubrication.

Bowser pumps and tanks are also thorobreds. They are attractive in design and construction. They are essential to thorobred service to thorobred cars.

Many architects include Bowser in their plans for home garages, because they are acquainted with the results obtained from Bowser products. No fine home garage is complete unless Bowser pumps and tanks are specified. They provide that touch of thoughtful service which most owners appreciate.

With this in mind, we have compiled this book to show Bowser equipment in service in some of



A garage of
English archi-
tecture~Fuel-
ing car from
Bowser Pump.



W.B. Mayo's gar-
age in Detroit,
in which Bowser
gasoline and
oil equipment
is installed.





the finer home garages in the country. Most of it has been in service for a long time—and is serving faithfully.

To assist the architect, we have included a sample set of specifications that will aid materially when gasoline and oil equipment are to be included in the plans.

Bowser is glad to be of service to the home garage owner or architect and we are willing to furnish any further information or be of any service on this subject.

The illustration above shows the charming home garage of Mr. Louis Brown, Pittsburg, Pennsylvania.



The elaborate
cut-stone garage
of Frank D. Stout
Pres., Missouri
Southern Railway.
Bowser pumps
installed in
cabinets—



WHAT BOWSER CAN DO FOR THE OWNER OF THE HOME GARAGE



BOWSER will assure a uniform grade of gasoline and oils which will result in maximum mileage and minimum mechanical trouble.

BOWSER filters the gasoline—no water, dirt or other impurities to clog the gasoline line and interfere with carburetion.

BOWSER makes possible the purchase of gasoline from tank wagons at a lower price than prevails at filling stations.

BOWSER cuts out wasted time at filling stations.

BOWSER encourages chauffeurs to watch gasoline and oil consumption—no spillage or waste—because they see that the owner has thought enough about these costly liquids to provide modern means of storing and a record-keeping means of drawing supplies.

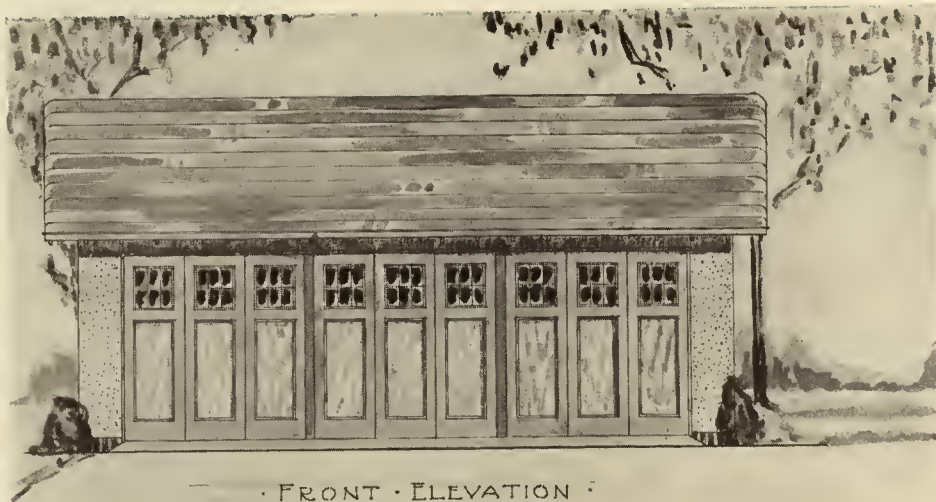
BOWSER way of dispensing gasoline and oil is clean and easy. No oil or dirt can accumulate on the floor of the garage.

BOWSER removes all possibility of temptation—resulting in agreements, or understandings, between employees and retailers of gasoline and oil.

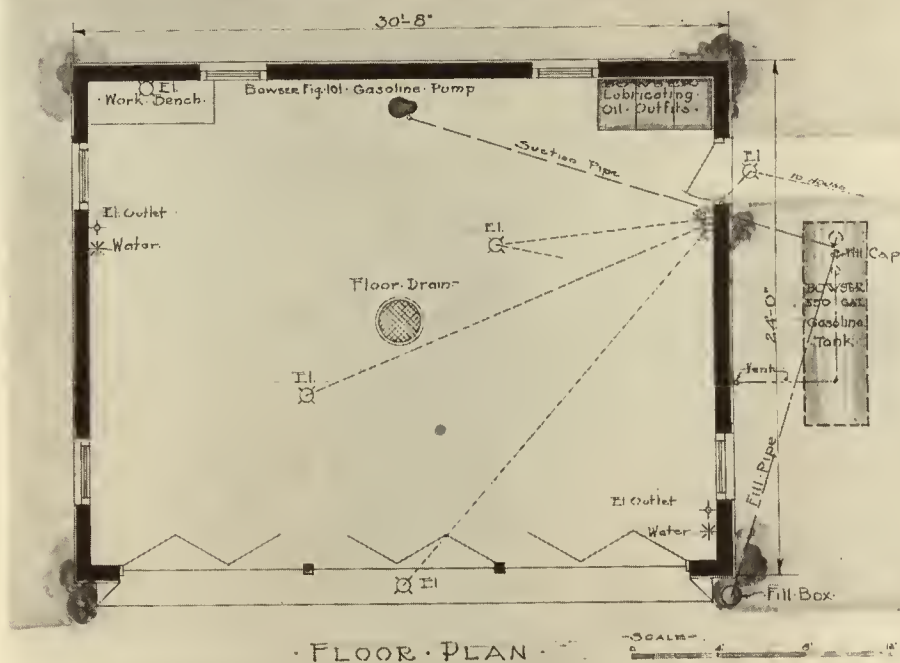
BOWSER is an important part of the garage.

BOWSER SHOULD BE INCLUDED IN
YOUR PLANS.

HOW TO INCLUDE BOWSER IN THE



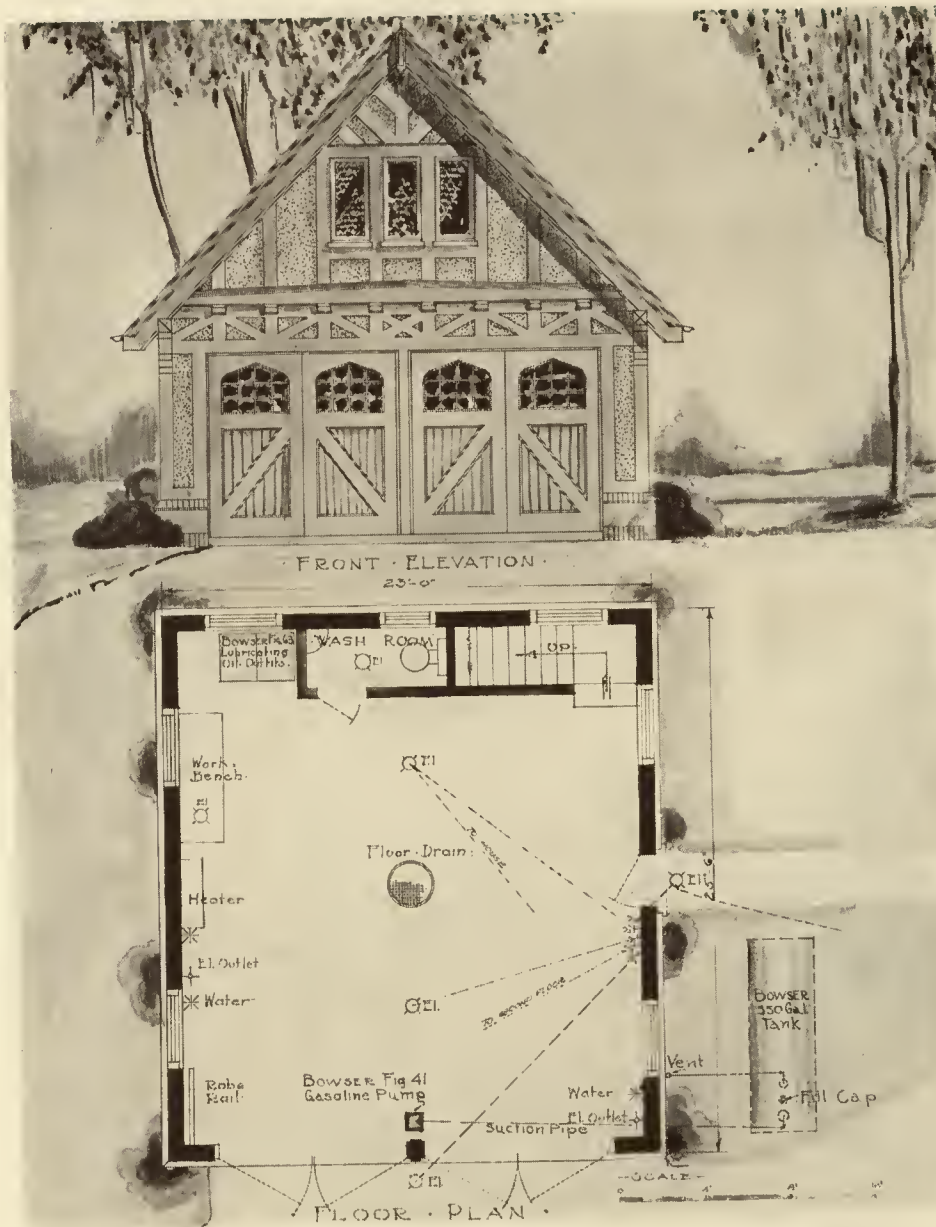
· FRONT · ELEVATION ·



· FLOOR · PLAN ·

The sketch above shows Bowser tanks and pumps in a three car garage. Underground tank is located outside the buildings, while the gasoline pump is accessible to all cars.

✓ PLANS FOR THE HOME GARAGE



A home garage for two cars with chauffeur's quarters above. Architects who specify Bowser do their clients a positive favor which is increasingly appreciated year after year.

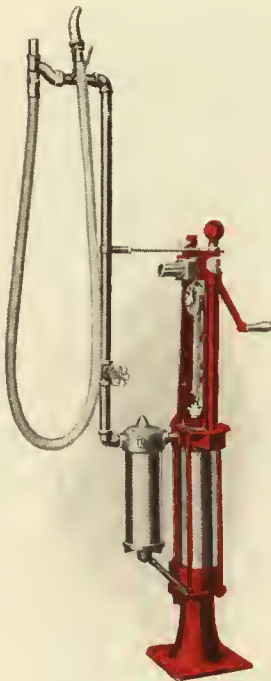


FIGURE 41 for Gasoline

(See Scale Drawing, Page 23)

With Fig. 210-B Hose Draining Attachment, Fig. 145-B Water Separator and Fig. 156-B Continuous Recording Meter.

Finish: For gasoline, red, nickel trimmings. For lubricating oils, black, nickel trimmings.

Characteristics: Piston type measuring; easy operation; accurate measurement; long life; fire and explosion proof; labeled by Underwriters' Laboratories for installation inside insured buildings.

Measurement: Measures one gallon at each complete stroke.

Construction Details: Pump bracket—T section, cast iron; Pinion and Cog Rack—cold rolled steel, machine cut. Pump Cylinder—Heavy seamless brass tubing. Plunger—Packed with special leather.

All pump parts exceptionally heavy to insure long life.

Standard Equipment

Discharge Register: Records complete gallons delivered at each operation up to 10 and repeats. May be returned to "0" when desired.

Card Holders: When two or more pumps are placed in battery form.

Expansion Chamber.

Foot Valve: Double foot valve (or line valve when required).

Tube Funnel and Lock.

Accessories Not Standard

Furnished at Extra Cost

10,000 Gallon Registering Meter, Fig. 156-B.

Bowser Centrifugal Water Separator, Fig. 145-B.

Hose Draining Attachment, Fig. 210-B.

Hose.

Discharge Nozzle.

Specification Bulletin sent on request

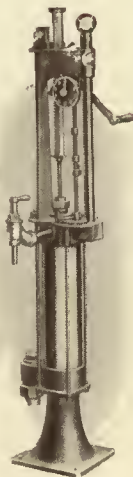


Figure 41
for Oil



FIGURE 101 for Gasoline

(See Scale Drawing, Page 23)

Finish: Red enamel with nickeled trimmings.

Characteristics: Piston type measuring; easy operation; rapid discharge (15 to 18 gallons per minute). Patented quick return feature—one revolution of crank handle on return stroke being equal to four revolutions on discharge stroke. Fire and explosion proof.

Measurement: Five gallons each complete stroke.

Construction Details: Double cut steel cog rack with cut steel pinion. Cylinder—Brass. Valve—One base valve, double foot valve and plunger valve. (All ground-in seats to insure positive closing.)

Standard Accessories

Meter: Capacity, 100,000 gallons and repeats.

Filter: Bowser centrifugal filter (removes all moisture and foreign matter).

Lock: Spring lock operated by lug; lock enclosed in head of pump—two keys with each lock. These are individual locks.

Foot Valve: Double foot valve.

Hose and Nozzle: 10 feet of 1½" special gasoline hose and nozzle.

Hose Draining Attachment.

Underwriters' Label: Approving pump for either inside or outside installation.



FIGURE 63

for Lubricating Oils

(See Scale Drawing, Page 23)

The Pump

Finish: Black enamel, nickered trimmings.

Characteristics: Piston type measuring; easy operation; rapid discharge: fire and explosion proof.

Measurement: Manufactured in two sizes, quart and half-gallon.

Construction Details: Cog Rack and Driving Pinion—Cut steel. Cylinder—Brass. Valves—Cylinder bottom valve, cast iron; standpipe valve, bronze. Pump-plate—Pressed steel, unbreakable.

The Tank

Type: First floor, rectangular.

Construction Details: Galvanized steel, 14-gauge. Seams riveted and soldered both inside and outside (tested before shipment). Pump-plate—Pressed steel.

Standard Equipment: Removable 8" Drip Pan with grate, which may be locked. Hinged Drip Pan Cover—Pressed steel. Metal Gauge Stick—inserted through the pump plate. Manhole—15", pressed steel cover, standard with 3 and 5 barrel outfits only. Capacities—1, 2, 3, and 5 barrels.



FIGURE 172 *for* Lubricating Oils

(See Scale Drawing, Page 23)

The Pump

Finish: Black, nickeled trimmings.

Characteristics: Rapid discharge; easy operation; durable construction.

Construction Details: Quart Pump. Cog Rack and Driving Pinion—Cold rolled steel; teeth machine cut. Cylinder—Seamless brass. Bracket—T section, grey iron. Valves—Poppet type; material, bronze.

Measurement: 10-gallon outfit: Pint, half-pint, quarter-pint. 65-gallon outfit: Quart, pint, half-pint.

The Tank

Type: Cabinet with hinged cover.

Construction Details: 16-gauge galvanized steel; all seams riveted and soldered from inside to outside—permanently leak-proof.

Capacities: 10 gallons and 65 gallons.

Standard Accessories

10-Gallon Outfit: Gauge stick hard wood inserted through top of tank. Locking hasp and staple. Handles for carrying. 4" removable drip pan with screened opening.

65-Gallon Outfit: Metal gauge stick suspended through pump plate. Locking hasp and staple. 4" removable drip pan with screened opening.

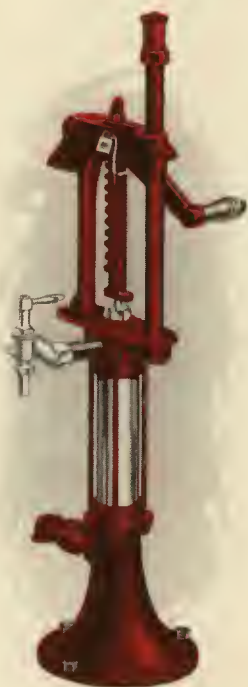


FIGURE 128 *for* Gasoline or Oil

(See Scale Drawing, Page 23)

Finish: For gasoline, red, nickeled trimmings. For lubricating oils, black, nickeled trimmings.

Characteristics: Piston type measuring; easy operation; long life; fire and explosion proof; labeled by Underwriters' Laboratories for installation inside insured buildings.

Measurement: Measures one quart at each complete stroke.

Construction Details: Pump Bracket—T section, cast iron. Pinion and Cog Rack—Cold rolled steel, machine cut. Pump Cylinder—Heavy seamless brass tubing. Plunger—Packed with special leather. All pump parts exceptionally heavy to insure long life; shut-off nozzle.

Standard Equipment

Name Card Holders: When two or more pumps are placed in battery form.

Foot Valve: Single foot valve.

Lock.

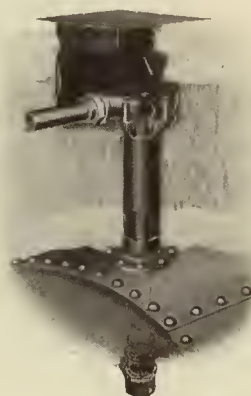


FILL BOX

The Figure 174 Fill Box for underground storage tanks, is designed for use at any point, either inside or outside of building, where fill box is desirable or necessary. It is provided with screw cover and parts are accurately machined so as to be water-tight. The fill box screws on the end of the fill pipe and may be furnished threaded for either 2" or 3" pipe.

COMPANION FLANGE

When underground storage tank is covered with concrete, a suction sleeve with companion flange and elbow in the fill box shown, forms a necessary accessory to the installation. The fill box and flange are placed directly above the suction flange on the tank, the opening of size for suction pipe (either 1 1/2" or 2") is provided in the side wall. The suction stub is placed into the tank through the 3 1/2" pipe and the companion flange and elbow fitted on to suction pipe in the fill box by means of three stud bolts. Where this combination is used, the foot valves are always easily accessible in case it becomes necessary to remove them for any reason.

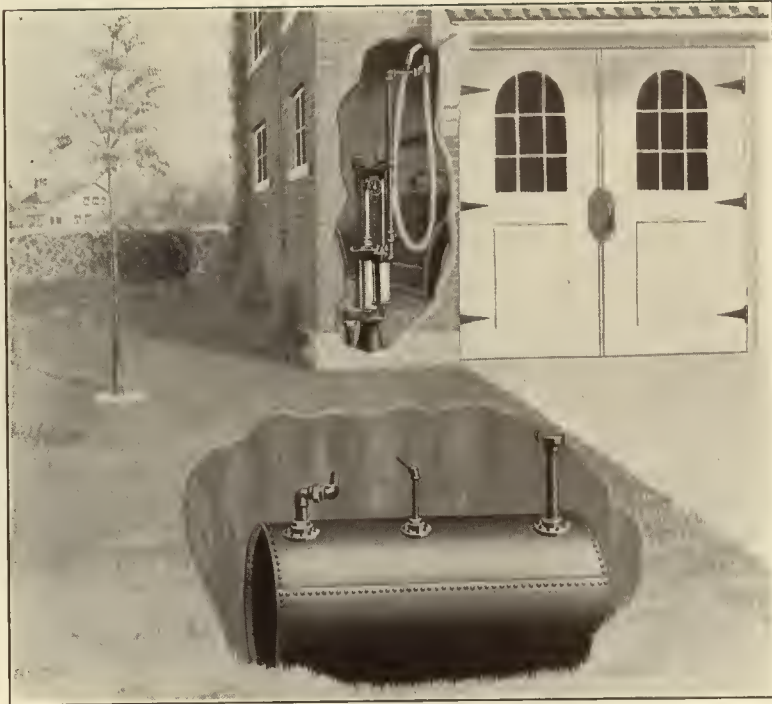


TRANSFER PUMP



To transfer liquids from one container to another on the same level without spillage, waste or excessive labor, the Bowser transfer pump, Figure 20, will be found unexcelled. Its use will eliminate losses due to partially emptied barrels, drums, etc. This pump is made with closed top with plunger operating through brass stuffing box. The valve is poppet type, especially constructed for use with light or heavy oils. By reason of the tight top and stuffing box, pump may be operated as rapidly as desired with either light or heavy oils, without overflow.

BOWSER TANKS OF CHARACTER



BOWSER tanks are made by the experience gained in thirty-nine years in manufacturing tanks to handle all liquids. Our tanks are recognized by experts to be the very best obtainable. Bowser tanks have many exclusive features. One of particular interest is the manner in which we insure our customers against leakage. All rivets are accurately spaced and drawn tight. All seams are completely filled up with solder by an exclusive Bowser "hot shot" method, making a tank which is virtually one piece of metal, and one that will remain absolutely tight for a long time.

SPECIFICATION

Gasoline and Oil Handling Equipment and Storage

General:

The gasoline handling equipment shall consist of a gasoline pump, an underground gasoline storage tank with fill pipe, fill box, air vent with air vent protector and all the necessary fittings between pump and tank.

The oil handling equipment shall consist of an oil pump, an underground oil storage tank with fill pipe, fill box, air vent with air vent protector and all the necessary fittings between pump and tank.

(Alternate: The oil handling equipment shall consist of a floor tank which is an oil pump mounted on a rectangular oil storage tank.)

All equipment shall be installed in a neat and workmanlike manner and in accordance with the instructions and directions of the manufacturers.

All equipment shall be that as manufactured by S. F. Bowser & Co., Inc., Fort Wayne, Indiana, and all references in these specifications refer to their catalogue numbers.

Gasoline Pump:

The pump shall be a Figure 101 Self-Measuring Gasoline Pump bearing the Underwriters' Label and shall be installed where shown on plans, and in accordance with the manufacturers' drawings and instructions. The pump shall be set on a firm level foundation, with base bolted down firmly. (Alternate: Specify Figure 41, with or without Hose Draining Attachment, Meter and Water Separator; or Figure 128.)

Gasoline Tank:

Furnish and install where shown on the plans, a.....gallon type

"C" Underground Cylindrical Storage Tank of.....gauge galvanized steel, complete with flange connections for suction stub, fill pipe and air vent.

The tank shall have seams riveted and soldered and shall bear the Underwriters' Label.

The tank shall be buried in the ground with top of tank.....feet below the finished grade line and with bottom of tank not over twelve feet below the level of the base of the pump. (This distance varies according to the requirements in various cities. Architect should determine what the regulations require before specifying.)

The tank shall not be buried in cinders, ashes, or any soil impregnated with corrosive material or exposed to salt water.

Piping:

All pipe shall be galvanized iron pipe of size as follows: Suction pipe from tank to pump shall be 2" inside diameter. Fill pipe shall be 2" inside diameter and shall have an inner steel tube extending from top of fill pipe to bottom of tank. Vent pipe shall be 1" inside diameter.

(Suction pipe for Figure 128 shall be 1 1/4" inside diameter. Suction pipe for Figure 41 shall be 1 1/2" inside diameter.)

All pipe fittings shall be of galvanized malleable iron.

All unions to be galvanized malleable with ground seat, brass to iron.

All horizontal pipes shall be run with a pitch of not less than 1/4" to the foot, so as to drain back to the

tank and shall be free from traps and pockets.

The suction pipe shall be run with as few changes of direction as possible.

The vent pipe shall be run as direct as possible to the wall of the building and shall be carried up along outside wall of building to the height required by local authorities and shall be capped with air vent protector.

The fill pipe shall extend from the tank to a height two inches above the finished grade and shall be fitted with a removable cone strainer and solid lock cap.

(Alternate: Where fill box is in concrete driveway or walk: The fill pipe shall extend from the tank to the solid lock, fill cap located just below grade and shall be covered with a Figure 174 fill box. The top of the fill box shall be set level with the top of the cement drive.)

The joints at the ends of all horizontal runs of suction, fill and vent pipes shall be made with swing joints so that the pitch of the pipes can be obtained without bending or straining pipe.

All joints shall be made with a compound composed of litharge and pure glycerine. Care must be taken to keep faces of all unions free of this joint compound or any other foreign material.

Lubricating Oil Pump:

(Use same specifications as for

Gasoline Pumps, substituting the words "Lubricating Oil" for the word "Gasoline," and specifying either Figure 41, or Figure 128.

Lubricating Oil Tank:

(Use same specifications as for Gasoline Tanks.)

Lubricating Oil Outfit (Floor Tank) :

Furnish and place where shown on the plans, one 65-gallon Standard Figure 63 outfit consisting of a self-measuring quart-stroke pump and type "B" tank made by S. F. Bowser & Co., Inc., Fort Wayne, Indiana.

Lubricating Oil Outfit (Floor Tank) :

Furnish and place where shown on the plans, one 65-gallon (or 10-gallon) Standard Figure 172 Outfit consisting of a rectangular cabinet-type tank with hinged cover and self-measuring quart-stroke pump (pint stroke on 10-gallon outfits) made by S. F. Bowser & Co., Inc., Fort Wayne, Indiana.

NOTE: There should be one complete outfit for each grade of oil to be used. If the underground tanks for gasoline and oils are to be filled from barrels on grade level, furnish one Figure 3 Siphon for emptying the barrels. If the floor tanks for oils are to be filled from barrels on the floor beside them, furnish one Figure 20 Transfer Pump for emptying the barrels.

Bowser can be of assistance to architects who are planning filling stations, storage garages, or planning installations in factories.

A copy of this booklet will be mailed to any address on your request. Use the enclosed post card, or write.

ARCHITECT'S · REFERENCE · CHART · BOWSER · PUMPS · AND · TANKS · FOR ~ GASOLINE · & · OILS ~

SCALE— $\frac{1}{4}" = 1'$

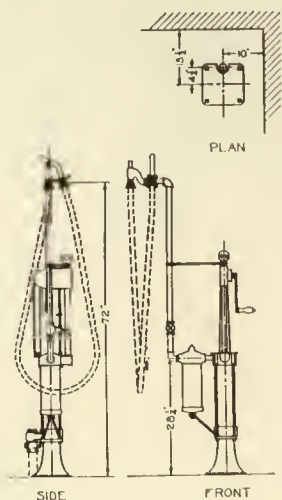


FIG. 41

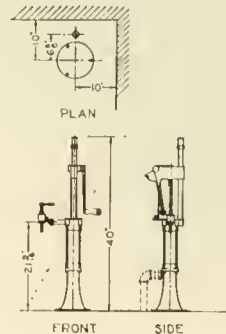


FIG. 128

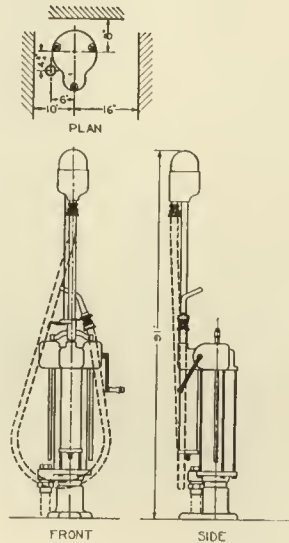


FIG. 101

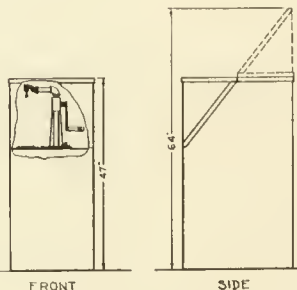
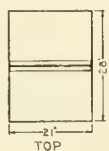


FIG. 172—65 GAL.

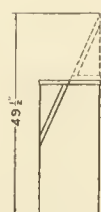


FIG. 172—10 GAL.

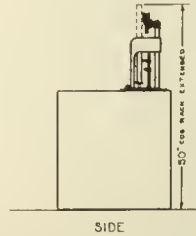
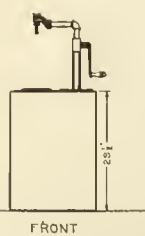
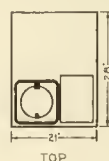


FIG. 63

CAPACITIES, DIMENSIONS AND SHIPPING WEIGHT OF STANDARD TANKS

TANK CAPACITY	OUTSIDE DIMENSIONS OF TANK 12-14 Gauge		STANDARD TANKS Shipping Weight, Lbs.	
Gallons	Diameter in Inches	Length in Inches	14 Gauge	12 Gauge
120	31 $\frac{1}{4}$	41 $\frac{1}{4}$	180	
280	38 $\frac{1}{2}$	60 $\frac{3}{4}$	330	
550	38 $\frac{1}{2}$	116 $\frac{3}{4}$	605	
800	46 $\frac{1}{2}$	116		1025
1000	52 $\frac{7}{8}$	111 $\frac{3}{4}$		1290

Prices on Larger Sizes in Black Iron Tanks on Application

This chart was prepared for the use of architects, so that gasoline and oil equipment might be shown more comprehensively on plans for home garages. Extra copies may be obtained by writing to

S. F. BOWSER & COMPANY, Inc., Fort Wayne, Indiana

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